FIG. 1

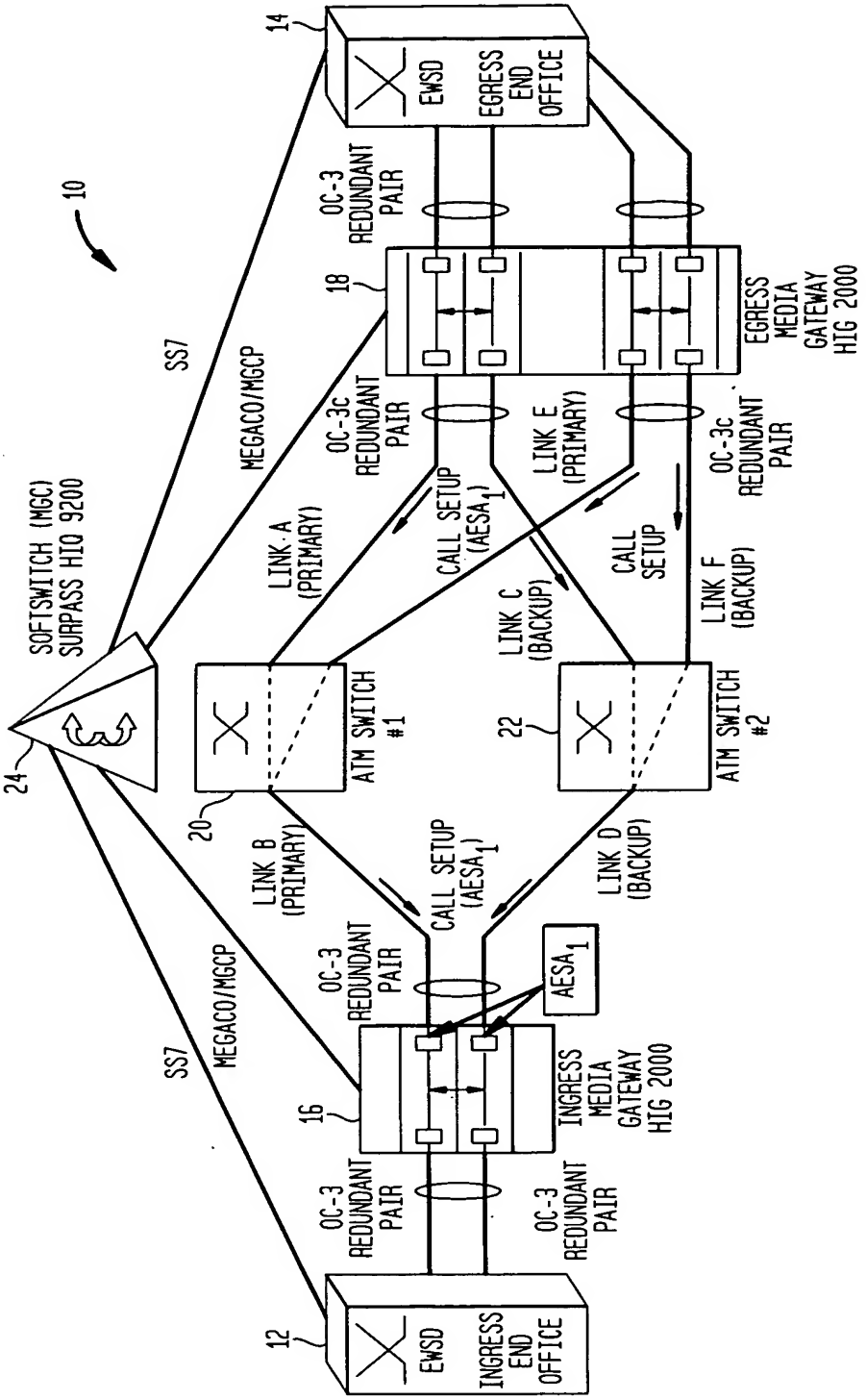

10
SOFTSWITCH (MGC)
SURPASS HIO 9200
24
SS7
MEGACO/MGCP
SS7
MEGACO/MGCP
14
EWSD
EGRESS END OFFICE
OC-3 REDUNDANT PAIR
18
EGRESS MEDIA GATEWAY HIG 2000
OC-3c REDUNDANT PAIR
OC-3c REDUNDANT PAIR
LINK A (PRIMARY)
CALL SETUP (AESA1)
LINK E (PRIMARY)
CALL SETUP
LINK C (BACKUP)
LINK F (BACKUP)
20
ATM SWITCH #1
22
ATM SWITCH #2
LINK B (PRIMARY)
CALL SETUP (AESA1)
LINK D (BACKUP)
OC-3 REDUNDANT PAIR
AESA1
16
INGRESS MEDIA GATEWAY HIG 2000
OC-3 REDUNDANT PAIR
OC-3 REDUNDANT PAIR
12
EWSD
INGRESS END OFFICE

FIG. 2

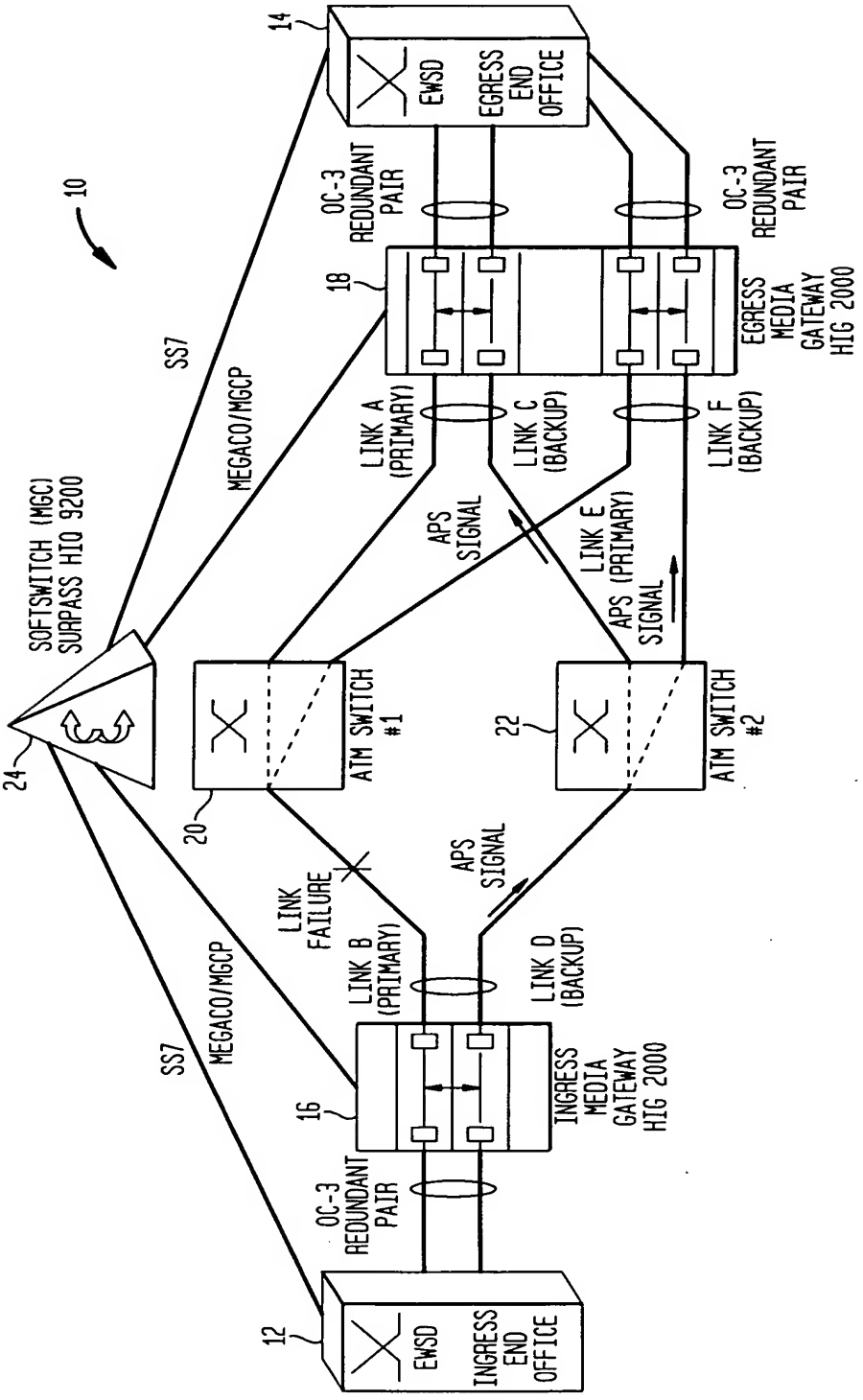

10
SOFTSWITCH (MGC)
SURPASS HIQ 9200
24
SS7
MEGACO/MGCP
SS7
MEGACO/MGCP
14
EWSD
EGRESS END OFFICE
OC-3 REDUNDANT PAIR
OC-3 REDUNDANT PAIR
18
EGRESS MEDIA GATEWAY HIG 2000
LINK A (PRIMARY)
LINK C (BACKUP)
LINK F (BACKUP)
LINK E (PRIMARY)
APS SIGNAL
APS SIGNAL
20
ATM SWITCH #1
22
ATM SWITCH #2
LINK FAILURE
LINK B (PRIMARY)
LINK D (BACKUP)
APS SIGNAL
16
INGRESS MEDIA GATEWAY HIG 2000
OC-3 REDUNDANT PAIR
12
EWSD
INGRESS END OFFICE

FIG. 3

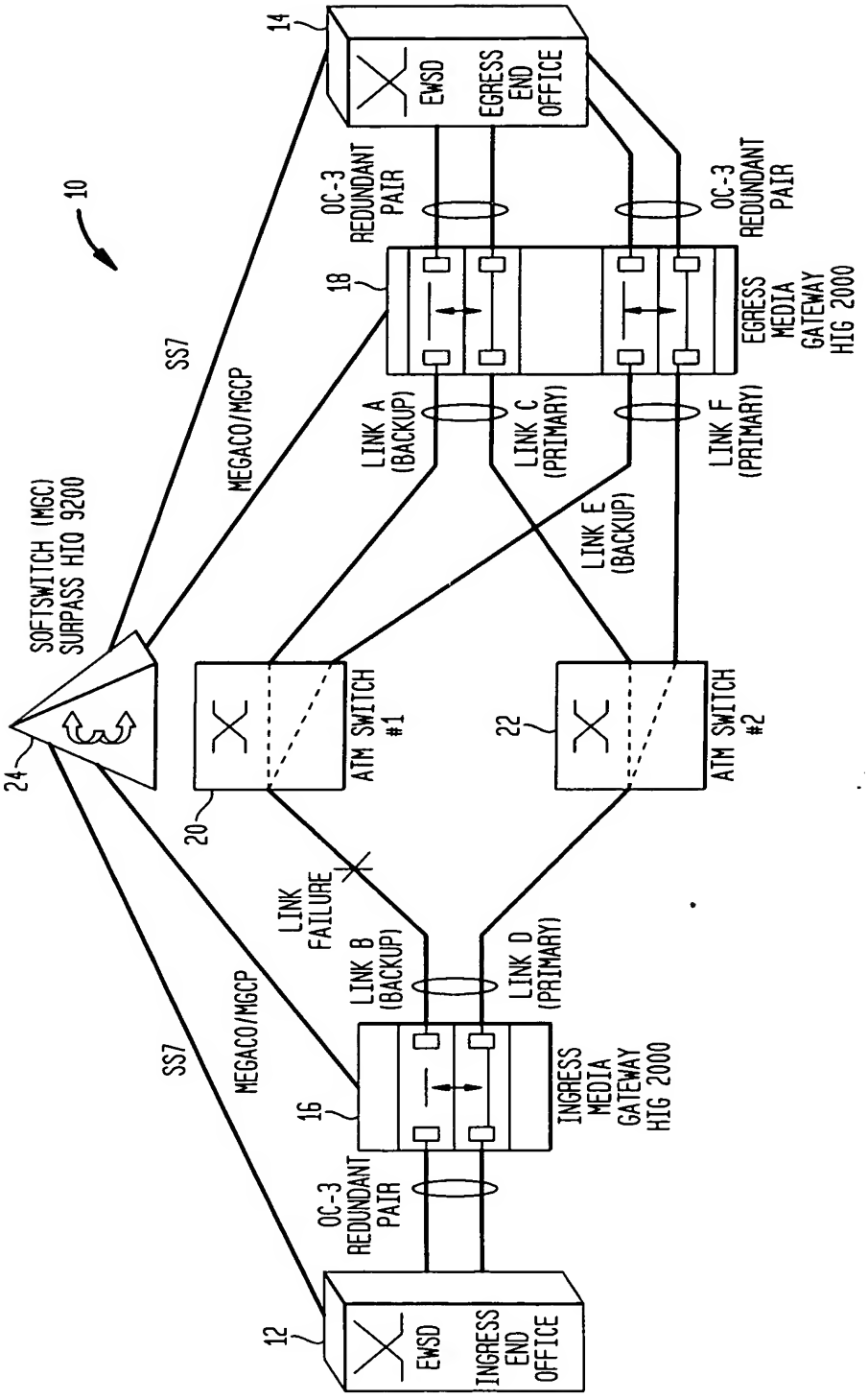
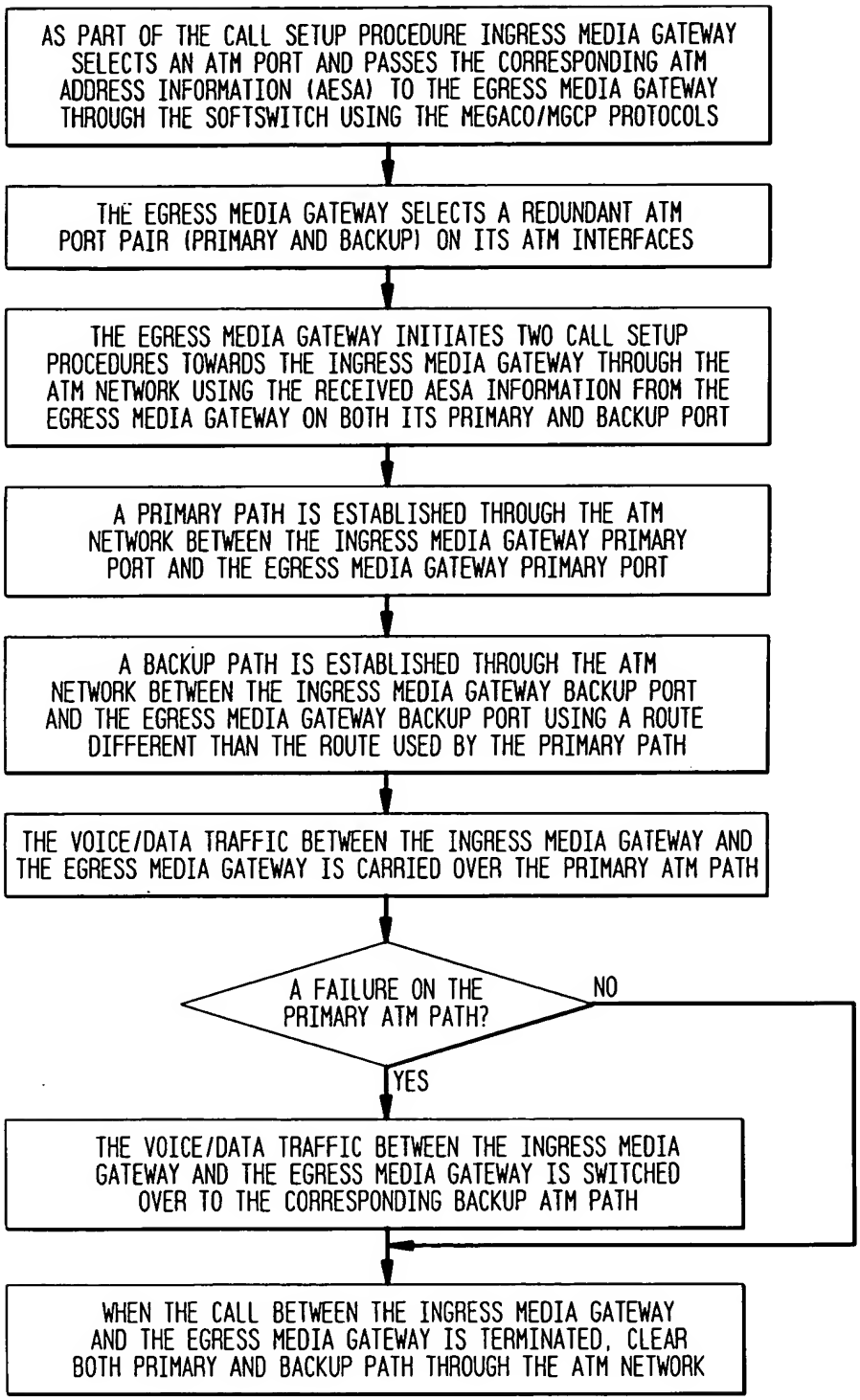

10
SOFTSWITCH (MGC)
SURPASS HIQ 9200
24
SS7
MEGACO/MGCP
14
EWSD
EGRESS END OFFICE
OC-3 REDUNDANT PAIR
OC-3 REDUNDANT PAIR
18
EGRESS MEDIA GATEWAY HIG 2000
LINK A (BACKUP)
LINK C (PRIMARY)
LINK E (BACKUP)
LINK F (PRIMARY)
ATM SWITCH #1
20
22
ATM SWITCH #2
LINK FAILURE
LINK B (BACKUP)
LINK D (PRIMARY)
SS7
MEGACO/MGCP
16
INGRESS MEDIA GATEWAY HIG 2000
OC-3 REDUNDANT PAIR
12
EWSD
INGRESS END OFFICE

FIG. 4


AS PART OF THE CALL SETUP PROCEDURE INGRESS MEDIA GATEWAY SELECTS AN ATM PORT AND PASSES THE CORRESPONDING ATM ADDRESS INFORMATION (AESA) TO THE EGRESS MEDIA GATEWAY THROUGH THE SOFTSWITCH USING THE MEGACO/MGCP PROTOCOLS
THE EGRESS MEDIA GATEWAY SELECTS A REDUNDANT ATM PORT PAIR (PRIMARY AND BACKUP) ON ITS ATM INTERFACES
THE EGRESS MEDIA GATEWAY INITIATES TWO CALL SETUP PROCEDURES TOWARDS THE INGRESS MEDIA GATEWAY THROUGH THE ATM NETWORK USING THE RECEIVED AESA INFORMATION FROM THE EGRESS MEDIA GATEWAY ON BOTH ITS PRIMARY AND BACKUP PORT
A PRIMARY PATH IS ESTABLISHED THROUGH THE ATM NETWORK BETWEEN THE INGRESS MEDIA GATEWAY PRIMARY PORT AND THE EGRESS MEDIA GATEWAY PRIMARY PORT
A BACKUP PATH IS ESTABLISHED THROUGH THE ATM NETWORK BETWEEN THE INGRESS MEDIA GATEWAY BACKUP PORT AND THE EGRESS MEDIA GATEWAY BACKUP PORT USING A ROUTE DIFFERENT THAN THE ROUTE USED BY THE PRIMARY PATH
THE VOICE/DATA TRAFFIC BETWEEN THE INGRESS MEDIA GATEWAY AND THE EGRESS MEDIA GATEWAY IS CARRIED OVER THE PRIMARY ATM PATH
A FAILURE ON THE PRIMARY ATM PATH?
NO
YES
THE VOICE/DATA TRAFFIC BETWEEN THE INGRESS MEDIA GATEWAY AND THE EGRESS MEDIA GATEWAY IS SWITCHED OVER TO THE CORRESPONDING BACKUP ATM PATH
WHEN THE CALL BETWEEN THE INGRESS MEDIA GATEWAY AND THE EGRESS MEDIA GATEWAY IS TERMINATED, CLEAR BOTH PRIMARY AND BACKUP PATH THROUGH THE ATM NETWORK